

Please enter the substitute specification as attached hereto. Also enclosed is marked-up copy of the substitute specification showing additions and deletions.

IN THE CLAIMS:

Please cancel claims 12 through 15.

Please amend the claims as follows:

- 1 1. (Amended) A method for transferring data on a bus
2 system [in which] using both isochronous communication and asynchronous
3 communication [are employed]; said isochronous communication is for any
4 device on the bus to receive synchronous data; said asynchronous
5 communication is for a predetermined device to receive asynchronous data;
6 said synchronous data [may] capable of containing actual data[;] and [said]
7 synchronous data also contains] encryption identification information [at an
8 area other than said actual data; said encryption identification information
9 indicates the status of encryption of said] indicating encrypted actual data;
10 and encrypted actual data is decrypted using decrypting information obtained
11 through the following steps:

12 a) [a receiving device] receiving said synchronous data [makes
13 a] at a receiving device, and said receiving device via said asynchronous
14 communication requesting [for] decrypting information [of] for said actual
15 data [to] from a sending device sending said synchronous data [via said]

16 asynchronous communication], if said encryption identification [information
17 indicates that said] indicates encrypted actual data [is encrypted];

18 b) [said sending device] receiving said request [sends] at said
19 sending device and said sending device sending one of:

20 i) encrypted decrypting information of said actual data; and

21 ii) [data required for obtaining said] decrypting information data
22 for obtaining said decrypting information,

23 to said receiving device via said asynchronous communication;

24 and

25 c) [said receiving device executes] executing at said receiving
26 device one of:

27 i) [taking out] extracting said decrypting information from said
28 encrypted decrypting information [when said receiving device receives said
29 encrypted decrypting information]; and

30 ii) obtaining said decrypting information using said [data for
31 obtaining said] decrypting information data [when said receiving device
32 receives said data for obtaining decrypting information].

1 2. (Amended) The method for transferring data as defined
2 in Claim 1, wherein a plurality of [types of] procedures are available between
3 the steps of detecting [encryption of said] encrypted actual data and obtaining

4 said decrypting information by said receiving device receiving said
5 synchronous data; and said receiving device executes the [next] following
6 steps for obtaining said decrypting information before requesting said
7 decrypting information:

8 i) querying said sending device of types of procedures
9 executable by said sending device before requesting said decrypting
10 information;

11 ii) selecting a procedure from those executable by both said
12 sending device and receiving device; and

13 iii) obtaining said decrypting information in accordance with
14 said selected procedure.

1 3. (Amended) The method for transferring data as defined
2 in Claim 2, wherein [said] a procedure is selected in accordance with a
3 predetermined priority when there are a plurality of procedures executable by
4 both of said sending device and said receiving device.

1 4. (Amended) The method for transferring data as defined
2 in Claim 1, wherein a plurality of [types of] procedures are available between
3 the steps of detecting [encryption of said] encrypted actual data and obtaining
4 [of] said decrypting information by said receiving device receiving said
5 synchronous data; and said receiving device executes the [next] following
6 steps for obtaining said decrypting information:

- 7 i) starting [said] a procedure selected from said plurality of
8 [types of] procedures in accordance with a predetermined priority;
- 9 ii) re-selecting [one of] said procedures one-by-one until [said] a
10 procedure executable by said sending device is found [when the procedure
11 selected by said receiving device is not executable by said sending device];
12 and
13 iii) obtaining said decrypting information in accordance with the
14 selected procedure [when a procedure] executable by said sending device [is
15 found].

1 5. (Amended) The method for transferring data as defined
2 in [one of] Claim[s] 2 [to 4], wherein said asynchronous data transmitted
3 between said sending device and said receiving device in accordance with
4 said selected procedure contains an identifier for indicating the type of said
5 procedure executed.

1 6. (Amended) The method for transferring data as defined
2 in one of Claims 1 to 5, 16 and 17, wherein said receiving device
3 authenticates whether said sending device is an authorized sending device
4 before making a request for said decrypting information.

1 7. (Amended) The method for transferring data as defined
2 in one of Claims 1 to 5, 16 and 17, wherein said sending device receiving a
3 request for said decrypting information authenticates that said receiving

4 device is an authorized receiving device before sending encrypted decrypting
5 information of said actual data [after confirming].

1 8. (Amended) The method for transferring data as defined
2 in one of Claims 1 to 5, 16 and 17, wherein said sending device and said
3 receiving device [mutually] are authenticated [that both are] as authorized
4 [sending] devices [and receiving device] before said receiving device makes a
5 request for said decrypting information.

1 9. (Amended) The method for transferring data as defined
2 in one of Claims 1 to 5, 16 and 17 [8], wherein the [next] following steps are
3 executed before said receiving device makes a request for said decrypting
4 information:

5 i) said receiving device [sends] sending information required by
6 said sending device at least for [creating] establishing a common key [to]
7 with said sending device; and

8 ii) said sending device [sends] sending information required by
9 said receiving device at least for [creating] establishing said common key [to]
10 with said receiving device;

11 and [then] said sending device [encrypts] encrypting said
12 decrypting information using said common key and [sends] sending said
13 encrypted decrypting information; and said receiving device [takes out]
14 extracting said decrypting information from said encrypted decrypting
15 information received using said [common] encryption key.

1 11. (Amended) The method for transferring data as defined
2 in one of Claims 1 to 5, 16 and 17, wherein said sending device [has]
3 includes a signal source [of] for said actual data [inside] and determines
4 encryption of [each of] said actual data in a fixed length unit which is output
5 from said signal source; and said sending device places encrypted actual data
6 and non-encrypted actual data in different output units of said synchronous
7 communication, and then outputs them to said bus system.

Please add new claims 16 through 20.

1 16. (Newly Added) The method for transferring data as
2 defined in Claim 3, wherein said asynchronous data transmitted between said
3 sending device and said receiving device in accordance with said selected
4 procedure contains an identifier for indicating the type of said procedure
5 executed.

1 17. (Newly Added) The method for transferring data as
2 defined in Claim 4, wherein said asynchronous data transmitted between said
3 sending device and said receiving device in accordance with said selected
4 procedure contains an identifier for indicating the type of said procedure
5 executed.

1 18. (Newly Added) The method for transferring data as
2 defined in Claims 1 to 5, 16 and 17, wherein said receiving device

3 authenticates whether said sending device is an authorized sending device
4 before making a request for said decrypting information.

1 19. (Newly Added) The method for transferring data as
2 defined in Claim 10, wherein the following steps are executed before said
3 receiving device makes a request for said decrypting information:

- 4 i) said receiving device sending information required by said
5 sending device at least for establishing a common key with said sending
6 device; and
7 ii) said sending device sending information required by said
8 receiving device at least for establishing said common key with said receiving
9 device;

10 and said sending device encrypting said decrypting information
11 using said common key and sending said encrypted decrypting information;
12 and said receiving device extracting said decrypting information from said
13 encrypted decrypting information received using said common encryption
14 key.

1 20. (Newly Added) The method for transferring data as
2 defined in Claim 11, wherein the following steps are executed before said
3 receiving device makes a request for said decrypting information:

- 4 i) said receiving device sending information required by said
5 sending device at least for establishing a common key with said sending
6 device; and